

U.S. Census Bureau
Insulated Wire and Cable - 2007
MA335J(07)
Issued June 2008

Address inquiries concerning these data to Census and Related Programs Support Branch, U.S. Department of Commerce, Census Bureau, Manufacturing and Construction Division, Washington, DC 20233-6900, or call Quenton Linyear, 301-763-7687.

These data are also available online through STAT-USA by subscription. For further information, visit <http://www.stat-usa.gov/> or call 1-800-STAT-USA.

Table 1. Summary of Shipments of Insulated Wire and Cable: 2002 to 2007
[Value in millions of dollars]

Product code	Product description	2007	2006	2005	2004	2003
	Insulated wire and cable 1/.....	21,012.4	21,602.6	15,865.1	13,233.8	11,441.5
335929A	Electronic wire and cable	3,617.1	3,331.7	2,748.2	2,614.3	2,358.8
335929B	Telephone and telegraph wire and cable	2,459.0	2,545.2	1,590.1	957.7	1,276.0
3359291	Power wire and cable 2/	2,514.8	2,875.2	2,256.2	1,810.4	1,484.5
3359291 pt.	Portable power cable 2/	(NA)	(NA)	(NA)	(D)	(D)
335929C	Control and signal wire and cable	468.7	446.7	291.6	(D)	(D)
335929D	Building wire and cable	6,750.0	7,247.7	4,835.2	3,707.3	2,433.8
331491F	Apparatus wire and cordage	615.8	553.6	509.9	560.6	671.9
335929E	Other insulated wire and cable	900.3	930.1	810.6	600.1	519.8
331491H	Magnet wire	1,868.7	1,833.3	1,214.7	1,120.7	957.3
3359210	Insulated optical fiber cable	1,198.5	1,273.0	1,158.3	886.3	944.4
327215A	Optical fiber	619.5	r/ 566.1	450.3	502.3	449.1

D Withheld to avoid disclosing data for individual companies. NA Not available. pt. Part.
r/Revised by 5 percent or more from previously published data.

1/ Detail may not add to total due to rounding.

2/ Beginning in 2005, portable power cable, part of product code 3359291, is included with the rest of product code 3359291, "Power wire and cable."

Table 2. Shipments of Copper Insulated Wire and Cable: 2007 and 2006
[Shipments in thousands of pounds. Value in thousands of dollars]

		Shipments, including interplant transfers 1/						
		2007			2006			
Product code	Product description	No. of cos.	Copper content weight 2/	Total Value 2/	No. of cos.	Copper content weight 2/	Total Value 2/	
335929 pt.	Insulated wire and cable (except magnet wire and optical wire).....	(NA)	2,553,507	17,325,757	(NA)	2,794,322	17,930,165	
335929A1	Electronic wire and cable	56 b/	290,411 a/	3,617,119	60 b/	269,483 a/	3,331,687	
	Flexible coaxial cable, armored or unarmored:							
335929A130	135 C and over	11 b/	4,381 a/	112,636	11 r/	3,710 a/	84,881	
335929A140	Under 135 C	17	42,132	585,853	18 r/	35,288	579,335	
	Hookup wire (single conductor, shielded and nonshielded):							
335929A170	135 C and over temperature rating.....	17 b/	14,073 b/	239,886	18 b/	14,374 b/	218,170	
335929A180	Under 135 C temperature rating.....	27 c/	67,470 c/	434,509	26 c/ r/	74,171 c/	458,977	
	Multiconductor electronic wire and cable (shielded and nonshielded):							
335929A190	Flat and ribbon cable	13	(D)	(D)	13 b/	3,576	73,248	
	Other multiconductor electronic wire and cable:							
	Shielded:							
335929A1A0	135 C and over temperature rating	17	(D) a/	149,675	19	(D)	(D)	
335929A1B0	Under 135 C temperature rating	24 a/	38,660	467,384	24 a/	43,452	414,814	
	Nonshielded:							
335929A1C0	135 C and over temperature rating	7	(D)	(D)	9	(D)	(D)	
335929A1D0	Under 135 C temperature rating	19 a/	32,575 a/	341,373	20	36,093	279,289	
335929A1 pt	Other electronic wire and cable.....	15 c/	30,433	965,770	16 r/	31,884 r/	902,299	
335929B	Telephone and telegraph wire and cable	17 b/	291,849 b/	2,458,987	19 b/	358,801 b/	2,545,176	
335929B120	Station wire and cable	8 b/	12,933 b/	79,370	8 b/	13,109 b/	73,691	
335929B140	Inside wiring cable	8 a/	68,906 a/	580,628	8 a/	88,488	706,089	
335929B180	Other telephone and telegraph wire and cable.....	11 b/	210,010 c/	1,798,989	13 b/	257,204 c/	1,765,396	
335929I	Power wire and cable.....	19 b/	248,804 b/	2,514,849	18	315,030	2,875,244	
335929I810	Paper insulated cable (all voltages, all types).....	2	(D)	(D)	1	(D)	(D)	
	Plastic and rubber insulated:							
	2 kV or less:							
335929I820	Portable welding cable	5 a/	17,969 b/	82,174	6 a/	18,507 b/	81,482	
335929I830	Underground distribution cable (UD, URD)	5	7,466 a/	452,357	5	8,321 a/	523,733	
335929I840	Thermoplastic insulated power cable	9 c/	38,881 c/	235,488	9 c/	24,264 c/	155,929	
	Thermoset insulated:							
335929I850	Armored, rubber and cross linked	7 b/	6,150 c/	51,617	7 a/	8,928 a/	64,220	
335929I860	Unarmored, rubber	6	(D)	(D)	5	(D)	(D)	

3359291870	Unarmored, cross linked	7	15,849	a/	101,668	7	16,465	a/	98,574
3359291890	Weatherproof cable	2	(D)	a/	22,229	1	(D)	a/ r/	17,479
3359291891	Service drop cable, thermoset and thermoplastic insulated.....	2	(D)	a/	100,462	2	(D)	a/ r/	103,102
Over 2 kV:									
33592918C0	Underground distribution cable (UD, URD), all insulations (jacketed and unjacketed)	7	21,077		374,848	6	61,364		610,278
Thermoset insulated power cable, excluding underground:									
2 kV to 15 kV:									
33592918E0	Armored, rubber and cross-linked	7	a/	22,592	a/	167,128	7	a/	199,994
33592918F0	Unarmored, rubber	7	b/	51,017	b/	334,268	7	a/	364,487
33592918G0	Unarmored, cross-linked	4		2,987		24,024	4		20,725
33592918H0	Over 15.1 kV (rubber and cross-linked).....	4	c/	19,098	c/	260,986	4	c/ r/	256,331
33592918I0	Other power wire and cable, including portable	9	c/	29,224	c/	225,703	9	a/	214,513
335929C	Control and signal wire	16	b/	49,483	b/	468,670	16	b/	446,666
335929C110	Signal wire and cable	12	b/	27,272	b/	259,589	12	b/	242,139
Control wire and cable, excluding elevator cable:									
335929C120	Thermoset insulated	6	b/	3,663	a/	63,384	6	a/	77,449
335929C130	Thermoplastic insulated	9	a/	18,548	b/	145,697	9	a/	127,078
335929D	Building wire and cable	20		1,425,974		6,750,007	21		7,247,665
Building wire and cable having underwriters' labels:									
Thermoset insulated:									
335929D110	Cross-linked polyethylene (XHHW)	11		44,039		403,027	11		375,075
335929D120	Cross-linked polyethylene (XLP, USE)	10		13,868		99,608	10		101,804
Thermoplastic insulated:									
335929D130	Flame-retardant nylon (THHN, THWN)	10		721,226		2,929,657	13		3,082,594
335929D140	Moisture and heat resistant (TW, THW)	9		2,474		15,249	11		18,918
335929D150	Service entrance cable (SER, SEU, ASE)	7	b/	11,442		212,563	7	b/	237,317
Nonmetallic branch-circuit and underground feeder:									
335929D160	Type NM-B	6		461,111		1,989,145	6		2,355,303
335929D170	Type UF and NMC (corrosion resistant)	8		32,762		171,674	7		200,134
335929D190	Other building wire and cable	10		139,052		929,084	8		876,520
331491F	Apparatus wire and cordage 3/.....	29	a/	86,152	a/	615,802	31	a/	553,578
Flexible cordage:									
331491F110	Thermoset insulated	10	b/	15,207	b/	111,198	10	b/	111,200
331491F120	Thermoplastic, including thermoplastic elastomers.....	10	a/	2,274		18,039	12	a/	19,925
331491F180	Extension cord sets	4	a/	1,648	a/	24,073	4	a/	25,680
331491F190	Fixed power supply cords	9		1,177		8,114	11		9,007
331491F1A0	Detachable power supply cords	5		760	a/	4,540	6		6,074
331491F1B0	Retractable power cords and other	7	a/	619		26,838	7		20,904
Apparatus wire:									
331491F130	Appliance fixture wire	10	a/	13,139	b/	92,119	10		98,502

331491F145	Appliance wiring material 14 gauge and larger, (including motor lead and transformer lead wire), thermoset and thermoplastic insulated.....	11	b/	19,251	a/	123,531	10	b/	14,053	a/	63,314
331491F160	Submersible pump cable.....	9		16,281		112,147	9		17,204		102,332
331491F170	Other apparatus wire and cordage, including machine tool wire.....	14	b/	15,796	b/	95,203	14		18,483		96,640
335929E	Other insulated wire and cable	32	c/	160,834	b/	900,323	35	b/	177,448	b/	930,149
	Automotive:										
335929E110	Bulk automotive primary wire	11	c/	98,839	c/	351,344	12	b/	93,322	b/	337,687
335929E120	Bulk battery cable.....	7	a/	4,409	a/	19,327	7	a/	6,935	a/	29,046
335929E130	Bulk ignition wire.....	4		(D)	a/	70,470	4		(D)		87,085
335929E140	Other automotive wire and cable	6		6,815		96,294	7	r/	7,483		93,006
	Airframe, shipboard and ground support cable, excluding coaxial cable and ignition cable:										
335929E150	Airframe and missile, including ground support cable	8	a/	5,872		61,730	8	a/	4,752		44,229
335929E160	Shipboard cable	4		(D)	b/	18,200	4		(D)	b/	19,064
335929E170	Other insulated or covered wire and cable, n.e.c.	15	c/	40,084	c/	282,958	17	c/	59,787	c/	320,032

D Withheld to avoid disclosing data for individual companies. NA Not available. n.e.c. Not elsewhere classified. pt. Part.
r/Revised by 5 percent or more from previously published data.

1/Interplant transfers for 2007 totaled 1,466 and for 2006 totaled 87,544.

2/Aluminum content for 2007 totaled 289,366 thousand pounds and for 2006 totaled 354,197 thousand pounds (not included in copper content weights). Aluminum shipment values are included in total value. See Table 3 for additional details.

3/Data include the following: (a) all known establishments which insulate wire and cable and then fabricate it into finished products, NAICS product class 331491E and (b) establishments from NAICS product class 334290, that manufacture wire, cord, and flexible cord sets from purchased insulated wire.

Note: Data presented in this table are for copper content insulated wire and cable. See Table 3 for aluminum content information. Percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of this item is estimated.

Table 3. Aluminum Shipments of Selected Insulated Wire and Cable: 2007 and 2006
[Aluminum gross weight shipments in thousands of pounds]

Product code	Product description	No. of cos.	2007	No. of cos.	2006
			Aluminum content 1/, 2/		Aluminum content 1/, 2/
335929 pt.	Insulated wire (except magnet wire)	(NA)	289,366	(NA)	r/ 354,197
335929A	Electronic wire and cable	1	(D)	1	(D)
335929B	Telephone and telegraph wire and cable	-	-	-	-
3359291	Power wire and cable	7	242,282	8	308,137
3359291830	Underground distribution cable, all insulations-- 2 kV or less	5	156,394	5	195,778
3359291890	Weatherproof cable.....	3	2,468	3	2,922
3359291891	Service drop cable, thermoset and thermoplastic insulated.....	4	35,716	3	39,015
33592918C0	Underground distribution cable, all insulations-- over 2 kV	5	28,494	6	50,847
33592918F0	Thermoset insulated power cable, unarmored, rubber-- 2 kV to 15 kV.....	3	(D)	4	5,687
3359291 pt.	Other power wire and cable	6	(D)	7	13,888
335929D1	Building wire and cable.....	5	36,371	6	r/ 35,194
335929D110	Thermoset insulated, cross-linked polyethylene (XHHW)	4	50,478	4	r/ (D)
335929D150	Service entrance cable (SER, SEU, ASE).....	4	(D)	3	(D)
335929D1 pt.	Other building wire and cable.....	7	38,137	7	39,456
335929C1, 335929E1, 335929F1	Other insulated wire and cable.....	3	(D)	4	r/ (D)

D Withheld to avoid disclosing data for individual companies. NA Not available. pt. Part. - Represents zero.
r/Revised by 5 percent or more from previously published data.

1/Gross weight includes insulating materials, but excludes packing materials.
2/Value of aluminum content is included in total value of Table 2.

Table 4. Shipments of Magnet Wire (Copper and Aluminum), Including Interplant Transfers: 2007 and 2006
[Gross weight in thousands of pounds. Value in thousands of dollars]

Product code	Product description	Shipments, including interplant transfers 1/					
		2007			2006		
		No. of cos.	Gross weight 2/	Value	No. of cos.	Gross weight 2/	Value
331491H	Magnet wire	15	503,426	1,868,682	16	564,402	1,833,327
	Class 105 and below:						
331491H110	7 AWG and larger round, including all square and rectangle, film coated	4	(D)	(D)	4	(D)	(D)
331491H120	8 to 21 AWG, film coated	4	(D)	(D)	4	(D)	(D)
331491H135	22 to 33 AWG, film coated	5	2,505	10,691	6	2,285	9,902
	Class 130 to 155:						
331491H160	8 to 21 AWG, film coated	7	8,868	36,502	7	9,451	35,300
331491H170	22 to 32 AWG, film coated	10	12,401	54,606	11	16,180	62,179
331491H180	33 to 44 AWG, film coated	8	6,429	39,479	8	7,873	45,168
	Class 180 and above:						
331491H190	7 AWG and larger round, including all square and rectangle, film coated	5	(D)	(D)	5	(D)	(D)
331491H1A0	8 to 21 AWG, film coated	8	(D)	(D)	8	(D)	(D)
331491H1B0	22 to 32 AWG, film coated	8	77,376	281,418	9	96,402	334,130
331491H1C0	33 to 44 AWG, film coated	6	(D)	(D)	6	(D)	(D)
331491H1C2	Miscellaneous film coated, n.e.c.	0	-	-	0	-	-
	Nonfilm coated (fibrous):						
331491H1D0	Class 130 and below	3	(D)	(D)	3	(D)	(D)
331491H1F0	Class 155 and above	4	(D)	(D)	4	(D)	(D)
	Nonfilm coated (tape):						
331491H1E0	Class 130 and below	2	(D)	(D)	2	(D)	(D)
331491H1G0	Class 155 and above	5	(D)	(D)	5	(D)	(D)
331491G1H0	Miscellaneous nonfilm coated, n.e.c.	2	(D)	(D)	2	(D)	(D)

D Withheld to avoid disclosing data for individual companies. n.e.c. Not elsewhere classified. - Represents zero.
r/Revised by 5 percent or more from previously published data.

1/Interplant transfers for 2007 and 2006 were withheld to avoid disclosing data for individual companies.
2/Gross weight includes insulating materials, but excludes packing materials.

Table 5. Value of Shipments of Fiber Optic Cable: 2007 and 2006
[Thousands of dollars]

Product code	Product description	2007		2006	
		No. of cos.	Value	No. of cos.	Value
33592101	Insulated optical fiber cable.....	27	1,198,462	26	1,272,979
33592101 pt.	Communication applications.....	20	1,185,278	20	1,262,396
	Single-mode stepped-index:				
3359210125	Dispersion shifted.....	9	245,382	9	173,004
3359210128	Dispersion unshifted	18	621,214	18 r/	744,253
3359210129	Multimode index.....	17	318,682	18	345,139
3359210434	Other applications.....	14	13,184	12 r/	10,583

pt. Part.

r/Revised by 5 percent or more from previously published data.

Table 6. Value of Shipments of Optical Fiber: 2007 and 2006
[Thousands of dollars]

Product code	Product description	2007		2006	
		No. of cos.	Value	No. of cos.	Value
	Optical fiber for data and nondata transmission	15	619,543	14 r/	566,116
327215B235	Optical fiber used for data transmission.....	9	594,822	8 r/	546,540
327215B238	Optical fiber used for nondata transmission.....	7	24,721	7	19,576

r/Revised by 5 percent or more from previously published data.

Table 7. Shipments, Exports, and Imports of Insulated Wire and Cable: 2007
[Quantity in thousands of units. Value in thousands of dollars]

Product code	Product description	Manufacturers' shipments (f.o.b. plant)		Exports of domestic merchandise 1/ 2/		Imports for consumption 1/ 3/	
		Quantity	Value	Quantity	Value	Quantity	Value 4/
331491H110, 120, 130, 140, 150, 160, 170, 180, 190, 331491G1A0, 1B0, 1C0, 1I0, 1D0, 1F0, 1E0, 1G0, 1H0	Magnet wire (copper)	448,136	1,732,661	72,947	447,679	48,199	424,664
331491H110, 120, 130, 140, 150, 160, 170, 180, 190, 331491H1A0, 1B0, 1C0, 1I0, 1D0, 1E0, 1F0, 1G0, 1H0	Magnet wire (aluminum).....	55,290	136,021	21,649	180,013	2,348	20,832
335929A100	Coaxial cable.....	76,946	1,664,259	47,957	578,970	78,148	605,894
3359210201, 301	Optical fiber cables.....	6,235,827	1,198,462	384,727	380,562	807,205	466,517
327215B231	Optical fibers, bundles, and cables.....	(X)	619,543	120,518	253,883	78,541	28,591
335929B100 120, 130, 140, 150, 160, 170, 180, 335929E150, 160	Other wire and cable used for telecommunications (except fiber optics).....	224,414	1,878,919	(NA)	(NA)	(NA)	(NA)

NA Not available. X Not applicable.

1/For comparison of North American Industry Classification System-based product codes with Schedule B export numbers and HTSUSA import numbers, see Table 9.

2/Source: Census Bureau report EM 545, U.S. Exports.

3/Source: Census Bureau report IM 145, Imports for Consumption.

4/ Dollar value represents the c.i.f. (cost, insurance, and freight) value at the first point of entry in the United States plus U.S. import duties.

Table 8. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2007

Product code	Product description	Export code 1/	Import code 2/
331491G110, 120, 130, 140, 150, 160, 170, 180, 190, 1A0, 1B0, 1C0, 1D0, 1E0, 1F0, 1G0, 1H0, 1I0	Magnet wire (copper).....	8544.11.0020 8544.11.0030 8544.11.0050	8544.11.0020 8544.11.0030 8544.11.0050
331491G110, 120, 130, 140, 150, 160, 170, 180, 190, 1A0, 1B0, 1C0, 1D0, 1E0, 1F0, 1G0, 1H0, 1I0	Magnet wire (aluminum).....	8544.19.0000	8544.19.0000
335929A100, 120, 130, 140, 150	Coaxial cable.....	8544.20.0000	8544.20.0000
3359210125, 128, 131, 134, 434	Optical fiber cable.....	8544.70.0000	8544.70.0000
327215A235, 238	Optical fibers, optical fiber bundles, and cables.....	9001.10.0000	9001.10.0075 9001.10.0085
335929B110, 120, 130, 140, 150 160, 170 180	Other wire and cable used for telecommunications (except fiber optics).....	(NA)	8544.41.4000 8544.49.4000 8544.51.4000 8544.51.7000
335929E150, 160			

NA Not available.

1/Source: 2007 edition, Harmonized System-Based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2007).

HISTORICAL NOTE

The Census Bureau has collected data on insulated wire since 1965.

Historical Current Industrial Reports data may be obtained from a Federal Depository Library. To locate a Federal Depository Library in your area, please visit <http://www.gpoaccess.gov/libraries.html>.